	Application No.	Applicant(s)
Notice of Allowability	10/669,564	MATSUURA ET AL.
	Examiner	Art Unit
	David Nhu	2818
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 12/14/04.		
2. The allowed claim(s) is/are 16-25.		
3. X The drawings filed on 25 September 2003 are accepted by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have	e been received.	09/733,929
 2. ☑ Certified copies of the priority documents have been received in Application No. 10/108,439. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
 3. Information Disclosure Statements (PTO-1449 or PTO/SB/IP Paper No./Mail Date 01 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 		
	Dan	2)2/

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REASONS FOR ALLOWANCE

1. Claims 16-25 are allowed.

2. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests as cited in claims 16, 17: providing a lead frame having a front face, a back face opposed of the front face, a tub and a plurality of leads arranged around the tub wherein a back face of the tub is etched off and each of the leads is thicker than the tub; arranging the lead frame between an upper part and a lower part as the bonded semiconductor chip is positioned in the cavity of the lower part and the back face of the tub is facing the upper part; after the arranging step, injecting a resin in the cavity for sealing the semiconductor chip, the tub, the plurality of wires, and a part of each the plurality of leads in the resin, wherein the back face of the tub is entirely sealed by the resin, and wherein a part of the resin which covers the back face of the tub is thinner than the leads, and wherein a front face of the tub is smaller than the back face of the semiconductor chip.

Applicants' undersigned representatives filed an amendment on 12/14/04, and also filed at that time a terminal disclaimer statement with reference to USP: 6,667,193 B2.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Minamio et al (6,208,020 B1): Lead frame for Use in manufacturing a Resin-

Molded Semiconductor Device.

5. Any inquiry concerning this communication on earlier communications from the examiner

should be directed to David Nhu, (571)272-1792. The examiner can normally be reached

on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu

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January 3, 2005

PRIMARY EVE